



clinical chemistry

Journal of the American Association for Clinical Chemistry

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VOLUME 25 1979

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Winston-Salem, N.C. 27103

Business Office Tel. (202) 857-0717
1725 K St., NW
Washington, D.C. 20006

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- 1861 **Some Criticisms of the DADE "Cardiozyme CK-MB Reagents"**

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- 1862 **Obviating Interference with Liquid-Chromatographic Assay of Theophylline**
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- 1863 **Splitting of the α_1 -Globulin Zone in Electrophoretic Patterns**

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- 1863 **Care in Use of Phenazine Methosulfate in the Laboratory**

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- 1864 **Comparison of Three Liquid-Filled Ampoules for Quality Control of pH, pCO_2 and PO_2 Measurement**

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- 1866 **Eliminating 1,7-Dimethylxanthine Interference from Reversed-Phase Liquid-Chromatographic Analysis for Theophylline**

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- 1867 **Zinc Contamination of Control Serum**

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- 1867 **Free Glucuronic Acid in Urine as Estimate of Tumor Load**

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- 1868 **Use of Decreased Reagent Volumes in Enzyme Immunoassay**

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- 1869 **Why Measure Total Lactate Dehydrogenase Activity?**

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- 1888 **Determination of Ammonia and Urea in Urine and of Urea in Blood by Use of an Ammonia Selective Electrode**
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- 1891 **Improved Method for Accurate Quantitation of Total and Conjugated Bilirubin in Serum**
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- 1900 **Disopyramide Determination by Gas Chromatography, Liquid Chromatography, and Gas Chromatography—Mass Spectrometry**

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- 1905 **Evaluation of Four "Kit" Immunoassay Methods for Determination of Alpha-Fetoprotein in Serum during Pregnancy**
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- 1909 **Rate Nephelometric Measurement of Rheumatoid Factor in Serum**

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- 1915 **Determination of Manganese in Whole Blood and Serum**

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- 1919 **Quantitative Gel-Electrophoretic Determination of Serum Amylase Isoenzyme Distributions**
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- 1924 **Competitive Enzyme-Linked Immunoassay for Factor VIII Antigen**

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- 1928 **Specific Radioimmunoassay of Ergot Peptide Alkaloids in Plasma**

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- 1965 **Quantitative Determination of High-Density Lipoprotein Cholesterol by Agarose Gel Electrophoresis**

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KEY TO ABBREVIATIONS

A, abstract of meeting paper
CR, case report
CC, case conference
E, editorial
H, history

L, letter
O, opinion
obit, obituary
R, review

S, symposium paper
SM, Selected Methods
SN, scientific note
SR, special report

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